- A holding device for an optical element, said holding device, comprising: at least one member formed of a silicon-containing aluminum material.
- 5 2. A holding device as claimed in claim 1, wherein the silicon content of said silicon-containing aluminum material is selected in such a way that the thermal expansion coefficient of said silicon-containing aluminum material is matched to the thermal expansion coefficient of the optical element.
 - 3. A holding device as claimed in claim 2, wherein the optical element comprises at least one of: a lens, a plain plate, a mirror, and a prism.

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- 4. A holding device as claimed in claim 1, wherein, said member comprises at least a portion of a lens mount.
- 5. A holding device as claimed in claim 1, wherein, said
 member comprises at least a portion of an objective housing.
- 6. A holding device as claimed in claim 1, wherein, the silicon content of said aluminum material is more than 15% by weight.
 - 7. A holding device as claimed in claim 1, wherein the silicon content of said aluminum material is more than 30% by weight or more than 40% by weight.

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8. A holding device as claimed in claim 1, said material is a material which, at a temperature in the region of 21°C, has a coefficient of thermal expansion $\alpha \le 24$ * $10^{-6} K^{-1}$ at a density of $\rho \le 7.5$ g/cm³.

A holding device as claimed in claim 1 wherein said mem ber comprises a part of an aerial picture camera.